REMARKS

These remarks are responsive to the Office Action made final dated January 12, 2005 (hereinafter referred to as the "Office Action"). Claims 1-22 were pending at the time of the last examination. Claims 2, 10 and 13 are amended herein. Since the amendments reduce the number of issues for appeal, the undersigned respectfully requests entry of the amendments despite the final status of the Office Action.

Section 5 of the Office Action states that the information disclosure statement filed August 2, 2004 was not considered because the information disclosure statement allegedly did not include a PTO form 1449 form. The undersigned respectfully disagrees with this allegation. A corresponding PTO form 1449 was included with the information disclosure statement correspondence dated August 2, 2004. In support of this, the undersigned provides the evidence disclosed in Exhibit A. The evidence includes a copy of all of the correspondence filed on August 2, 2004 including the PTO form 1449. Also, the return receipt postcard and corresponding express mail receipt are also provided in Exhibit A. As can be seen from the return receipt postcard, there is a description of the contents submitted, which is stamped by the Office of Initial Patent Examination (OIPE) of the United States Patent and Trademark Office, and which includes the Express Mail number corresponding to the express mail receipt, having a "Date In" field filled out of August 2, 2004. Accordingly, the undersigned requests consideration of the references placed with the file and submitted on August 2, 2004. In the event that the reference will continue not to be considered, please inform the undersigned so that an appropriate petition may be filed to consider the PTO form 1449 form as being timely filed on August 2, 2004.

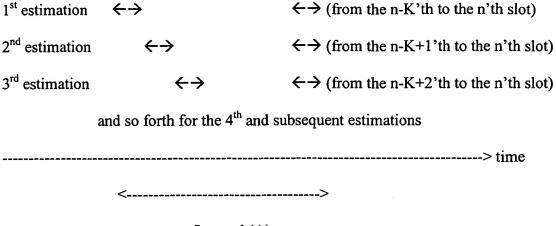
Section 6 of the Office Action rejects Claims 2, 7, 13 and 18 under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particular point out and distinctly claim the subject matter which the applicants regard as the invention. Claims 2 and 13 have been amended herein to correct any indefiniteness. Claims 7 and 18 were rejected based on dependency from Claims 2 and 13, respectively. Claim 10 is additional amended to remove a phrase previously deleted, but inadvertently left in the claims during the last amendment.

Section 7 of the Office Action rejects Claims 1, 4, 5, 8, 12, 15, 16 and 19 under 35 U.S.C. 103(a) as being unpatentable over United States patent number 6,438,362 (hereinafter referred to as "Amezawa") in view of United States patent number 5,590,409 (hereinafter referred to as "Sawahashi"), and further in view of United States patent number 5,732,334 (hereinafter referred to as "Miyake").

Amezawa discloses an estimator that obtains an estimated value using a moving-average method. Sawahashi discloses that a mobile station measures an average received power per transmission power control period of a signal sent from a base station and detects a power difference between the average received power of a current transmission power control period and that of one of the previous transmission power control periods. However, Sawahashi only suggests using one prior arbitrary transmission power control period.

In contrast, in accordance with the principles of the present invention of Claims 1 and 12, the length of time of the time intervals used to estimate propagation path variation values are different from each other. In particular, each time interval is the time from a different respective prior transmit power control section and the current transmit power control section. The following chart illustrates this concept more intuitively.

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Interval (A)

where "←→" represents a transmission control section, and where the horizontal position of the symbol "←→" represents the time of the corresponding transmission control section, with time proceeding rightward.

The principles of the present invention makes it possible to measure received signal power more precisely by estimating propagation path variations in all transmit power control sections in an interval (e.g., "Interval (A)" of the above figure) and obtaining products of received power (or amplitude) and a result of the propagation path variation estimation for each transmit control section.

If the description of Sawahashi is combined with that of Amezawa, the received power should be obtained by multiplying a result of propagation path variation estimation by the result of average received power measurement in one transmission power control period. In such a combination, the various multiple propagation path estimation values are not obtained with respect to a single current transmit control section. This is much different from the principles of the present invention, which improves the precision by averaging received signal power in the plurality of transmit power control sections.

With reference to Miyake, a multiplier obtains correction data defined as a value for correcting reference control data by multiplying error data by coefficient data. The description of Miyake corrects data using a sample in the past. However, there is no description regarding an operation to correct a plurality of prior samples and to average these samples. In contrast, the principles of the present invention correct the plurality of prior samples (e.g., received power) using correction values (i.e., propagation path estimation values) in each time period to improve the precision.

Accordingly, independent Claims 1 and 12 are not unpatentable by even the combination of Amezawa, Sawahashi, and Miyake. Claims 4, 5 and 8 depend from Claim 1, and thus are not unpatentable over the combination to the extent that they depend from Claim 1, for at least the reasons provided for Claim 1. Similarly, Claims 15, 16 and 19 depend from Claim 12, and thus are not unpatentable over the combination to the extent that they depend from Claim 12, for at least the reasons provided for Claim 12. Thus, this rejection should be withdrawn.

Section 9 of the Office Action rejects Claims 2 and 13 under 35 U.S.C. 103(a) as being unpatentable over Amezawa in view of Sawahashi, and further in view of Miyake. In accordance with the principles of the present invention of Claims 2 and 13, the length of time of the time intervals used to estimate propagation path variation values are different from each other. In particular, each time interval is the time from a different respective prior transmit power control section and the current transmit power control section. As explained above for Claims 1 and 12, this concept differs significantly from want is taught by even the combination of Amezawa, Sawahashi, and Miyake, and provides precision improves over even such a

¹ Since none of the combinations describe, teach or suggest all of the recited features of any of the independent claims, it is not necessary that a full response to the Office Action also include arguments against any of the combinations of references. The lack of such an argument in this response should not, therefore, be considered as acquiescing that the respective combination is appropriate.

combination. Accordingly, independent Claims 2 and 13 are not unpatentable by even the combination of Amezawa, Sawahashi, and Miyake, and this rejection should be withdrawn.

Section 10 rejects Claims 3 and 14 under 35 U.S.C. 103(a) as being unpatentable over Amezawa in view of Sawahashi and Miyake, and further in view of United States patent number 5,297,161 (hereinafter referred to as "Ling"). Claims 3 and 14 depend from Claims 1 or 2, and 12 or 13, respectively. However, as explained above, Claims 1, 2, 12 and 13 each differ significantly from even the combination of Amezawa, Sawahashi and Miyake. In particular, the combination does not describe, teach or suggest, that the length of time of the time intervals used to estimate propagation path variation values are different from each other, where each time interval is the time from a different respective prior transmit power control section and the current transmit power control section. Ling also does not teach this feature. Accordingly, even the combination of Amezawa, Sawahashi, Miyake and Ling do not teach or suggest the recited independent claims, and thus not teach or suggest Claims 3 and 14. Accordingly, this rejection should be withdrawn.

Section 11 rejects Claims 6 and 17 under 35 U.S.C. 103(a) as being unpatentable over Amezawa in view of Sawahashi and Miyake, and further in view of United States patent number 5,377,809 (hereinafter referred to as "Rezaiifar"). Claims 6 and 17 depend from Claims 1 and 12, respectively. However, as explained above, Claims 1 and 12 each differ significantly from even the combination of Amezawa, Sawahashi and Miyake. In particular, the combination does not describe, teach or suggest, that the length of time of the time intervals used to estimate propagation path variation values are different from each other, where each time interval is the time from a different respective prior transmit power control section and the current transmit power control section. Rezaiifar also does not teach this feature. Accordingly, even the

combination of Amezawa, Sawahashi, Miyake and Rezaiifar do not teach or suggest the recited independent claims, and thus not teach or suggest Claims 6 and 17. Accordingly, this rejection should be withdrawn.

Section 12 rejects Claims 7 and 18 under 35 U.S.C. 103(a) as being unpatentable over Amezawa in view of Sawahashi and Miyake, and further in view of United States patent number 5,604,766 (hereinafter referred to as "Dohi"). Claims 7 and 18 depend from Claims 2 and 13, respectively. However, as explained above, Claims 2 and 13 each differ significantly from even the combination of Amezawa, Sawahashi and Miyake. In particular, the combination does not describe, teach or suggest, that the length of time of the time intervals used to estimate propagation path variation values are different from each other, where each time interval is the time from a different respective prior transmit power control section and the current transmit power control section. Dohi also does not teach this feature. Accordingly, even the combination of Amezawa, Sawahashi, Miyake and Dohi do not teach or suggest the recited independent claims, and thus not teach or suggest Claims 7 and 18. Accordingly, this rejection should be withdrawn.

Accordingly, each of the rejections should be withdrawn, and favorable action is respectfully requested. In the event that the Examiner finds remaining impediment to a prompt allowance of this application that may be clarified through a telephone interview, the Examiner is requested to contact the undersigned attorney.

Dated this 24th day of March, 2005.

Respectfully submitted,

Adrian J. Lee

Registration No. 42,785 Attorney for Applicant Customer No. 022913

AJL:ds DS0000003261V001

EXHIBIT A

Best Available Copy

TO THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASP STAMP AND RETURN. THANK YOU.

SUBMITIED:

Transmittal for Information Disclosure Statement (2 page; duplicate); Information Disclosure Statement Under 37 C.F.R. § 1.97 (2 pages); Form PTO-1449 Listing of References.(4.pgage);

Legible Copy of References; (6 references) PTO 2038 Credit Card form for \$180.00. Certificate of Express Mail (EV510294515US); Acknowledgment Postcard

Applicant:

Masafumi Usuda et al

Title: CDMA NECHENON AFFACE CHENON AFFACE COMMENTAL POWER MEASURING APPARA

MOBILE COMMUNICATION SYSTEM 09/619,361 Serial No.:

July 19, 2000 Filing Date? Docket:

August 2, 2004 15689.54 Date of Mailing:



CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10) Applicant(s): Masafumi Usuda et al.			Docket No. 15689.54	
Application No. 09/619,361	Filing Date July 19, 2000	Examiner Unknown	Customer No. 022913	Group Art Unit 2731
	CEPTION APPARATUS MOBILE COMMUNICA	AND RECEIVED SIGNAL POWER I	MEASURING AP	PARATUS
I hereby certify that t	he following corresponde	nce:		
(see below)				
-	ith the United States Pos	dentify type of correspondence) stal Service "Express Mail Post Office missioner for Patents, P.O. Box 1450,		
	(Date)			
		Adrian . (Typed or Printed Name of Perso	n Mailing Correspond	ence)
		(Signature of Person Mail.		
		EV 510294 ("Express Mail" Mailin	· · · · · · · · · · · · · · · · · · ·	

Note: Each paper must have its own certificate of mailing.

Transmittal for Information Disclosure Statement (2 page; duplicate); Information Disclosure Statement Under 37 C.F.R. § 1.97 (2 pages); Form PTO-1449 Listing of References (1 page); Legible Copy of References; (6 references) PTO 2038 Credit Card form for \$180.00 Certificate of Express Mail (EV510294515US); Acknowledgment Postcard

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT (Under 37 CFR 1.97(b) or 1.97(c))					Docket No. 15689.54		
In Re Application Of: Masafumi Usuda et al.							
Applic	cation No.	Filing Date	Examiner	Customer No.	Group Art Unit	Confirmation No.	
09/	619,361	July 19, 2000	Unknown	022913	2731	Unknown	
Title:	CDMA REC	EPTION APPARAT	US AND RECEIVED SIGNAL	POWER MEAS	SURING IN CDM	1A	
MOBILE COMMUNICATION SYSTEM							
Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450							
			37 CFR 1.97(b)				
1. The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.							
			37 CFR 1.97(c)				
2. 🗵	The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:						
	☐ the s	tatement specified ir	n 37 CFR 1.97(e);				
		(OR				
	★ the feature is a second control of the	ee set forth in 37 CF	R 1.17(p).				
			,				

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT Docket No. (Under 37 CFR 1.97(b) or 1.97(c)) 15689.54 In Re Application: Masafumi Usuda et al. Customer No. Group Art Unit | Confirmation No. Examiner Application No. Filing Date 2731 Unknown 09/619,361 July 19, 2000 Unknown 022913 CDMA RECEPTION APPARATUS AND RECEIVED SIGNAL POWER MEASURING IN CDMA MOBILE COMMUNICATION SYSTEM Payment of Fee (Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p)) A check in the amount of is attached. The Director is hereby authorized to charge and credit Deposit Account No. 23-3178 as described below. Charge the amount of Credit any overpayment. \boxtimes Charge any additional fee required. Certificate of Transmission by Facsimile* Certificate of Mailing by First Class Mail I certify that this document and fee is being deposited on I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States with the U.S. Postal Service as first class Patent and Trademark Office (Fax. No. mail under 37 C.F.R. 1.8 and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. (Date) Signature of Person Mailing Correspondence Signature Typed or Printed Name of Person Mailing Certificate Typed or Printed Name of Person Signing Certificate *This certificate may only be used if paying by deposit account. Dated: August 2, 2004 Signature ADRIAN J. LEE Attorney for Applicant Reg. No.: 42,785 Customer No.: 022913 CC:

PATENT APPLICATION
Docket No: 15689.54

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of) `	
	Masafumi USUDA et al.	<i>,</i> ,	
Serial No.:	09/619,361) Art Unit	
Filing Date:	July 19, 2000) 2661)	
Confirmation No.:	2184) }	
For:	CDMA RECEPTION APPARATUS AND RECEIVED SIGNAL POWER MEASURING APPARATUS IN CDMA MOBILE COMMUNICATION SYSTEM		
Examiner:	Ian N. Moore		
Customer No.:	022913)	

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof is also enclosed.

In accordance with 37 C.F.R. § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided. The concise explanation for Japanese Publication No.: 06-013956 is provided in the English abstract of that publication. The concise explanation for Japanese Publication No.: 11-122212 is provided in the English abstract of that publication. The concise explanation for Japanese Publication No.: 10-013364 is provided in the English abstract of that publication. The concise explanation for Japanese Publication No.: 10-126337 is provided in the English abstract of that publication. The concise English translation is attached for Japanese non-patent reference, "An Investigation on SIR Measurement Methods in Adaptive Transmit Power Control for DS-CDMA".

((<u>Promptness Certification</u> or <u>Submission Fee</u>) Under 37 C.F.R. § 1.97(c))

In accordance with 37 C.F.R. § 1.97(c), a PTO 2038 Credit Card form in the amount of \$180.00 is enclosed to secure consideration of the references submitted with this Information Disclosure Statement. Please credit any over payment or charge any additional fees to Deposit Account No. 23-3178 of the undersigned.

DATED August 2, 2004

Respectfully submitted,

ADRIAN J. LEE Attorney for Applicant Registration No. 42,785 Customer No. 022913

AJL: ds DS0000002299V001

Docket Number (Optional) Application Number 15689. 09/619,361 Applicant(s) INFORMATION DISCLOSURE CITATION Masafumi Usuda et al. (Use several sheets if necessary) Filing Date Group Art Unit July 19, 2000 2731 **U.S. PATENT DOCUMENTS** EXAMINER FILING DATE REF DOCUMENT NUMBER DATE NAME CLASS SUBCLASS INITIAL IF APPROPRIATE U.S. PATENT APPLICATION PUBLICATIONS EXAMENER FILING DATE DOCUMENT NUMBER DATE CLASS SUBCLASS NAME REF INITIAL IF APPROPRIATE FOREIGN PATENT DOCUMENTS Translation DOCUMENT NUMBER REF DATE COUNTRY CLASS SUBCLASS YES NO 1 06-013956 1/21/1994 Japan H04B7 26 2 11-122212 00 4/30/1999 H04J13 Japan 3 1/16/1998 H04B17 00 10-013364 Japan 4 10-126337 5/15/1998 Japan H04B7 26

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.